

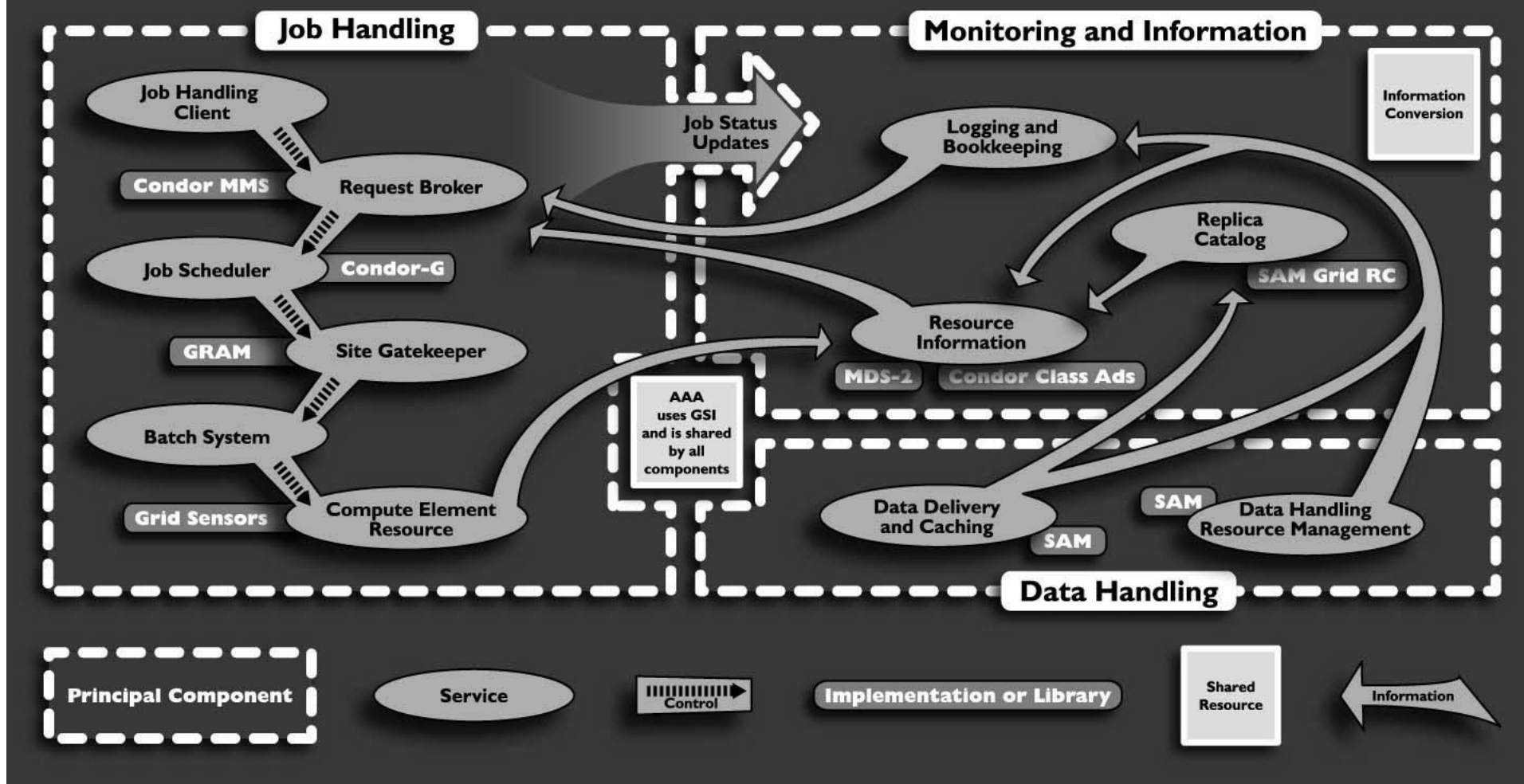
CDF UK COMPUTING

- Computing in the UK
- Hardware
- People
- Software
- Policy

CDF-UK

- A variety of facilities
 - 4 identical facilities at Oxford, Liverpool, Glasgow and University College-London (UCL)
 - Scotgrid (Glasgow)
 - Rutherford Lab
 - MAP (Liverpool - 75GHz + 3000GHz/Redhat9)
 - UCL-SRIF (100GHz+ farm)
- Access to the UK Grid which foresees 10K processors over the next 3 years. Availability for CDF to be negotiated.
- WAN access to 10 Gbit/sec (UKLight/StarLight) to UK.
- Limitations on expansion in some sites due to electrical installation (but not particularly relevant)
- Facilities are a combination of CDF and Grid resources. Grid is a significant motivation: Grid resources for CDF as a real Grid.

SAM-Grid Architecture



CDF-UK Hardware

YEAR	TB at FNAL	GHz at FNAL	TB in UK	GHz in UK
2001	10	-	9	74
2002	64	70	28	114
2003	-	-	4	10
Total	74	70	41	198

•Plus fractions of Scotgrid (128GHZ), MAP (3000GHZ), RAL (Tier1) and UCL-SRIF(100GHZ)

People

- UK CDF physicists: 35 authors
- Support for CDF software
 - 1 senior physicist: Data Handling Co-head and SAM Co-head (rs)
 - System/hw support from local sites
 - 2 computing professionals since 2001-2004, with bid to extend to 2007.
 - 4 CDF physicists from various UK sites ~10% each on installation, test, configuration, development issues
 - 2 CDF physicists doing Grid/CDF testing (10%)

Software:SamGrid

- SAM deployed at Glasgow and Oxford
- UCL, RAL and Liverpool next
- SAM open beta on CAF: Oct 31
- Installing JIM now: any CDF person submit from fcdflnx2 (offline management in CDF has no milestone for this)

Usage policy

- Plan to allow CDF members at large to use spare CPU cycles.
- Will use JIM to match jobs with data where location of data is the metric
- Test Policy: 20% of Scotgrid for CDF, 20% of Scotgrid for any Grid Job.
- MAP will be made available for Monte Carlo
- Negotiations are part of the game.

Expansion

- UK expanding to more than 10K processors: usage policies need to be made clear, but using grid tools will likely get priority - until everyone is using grid.
- Support: Grid Control room being set up at RAL for user questions
- Support: Align software to LHC